

FIG. 1

FIG. 2

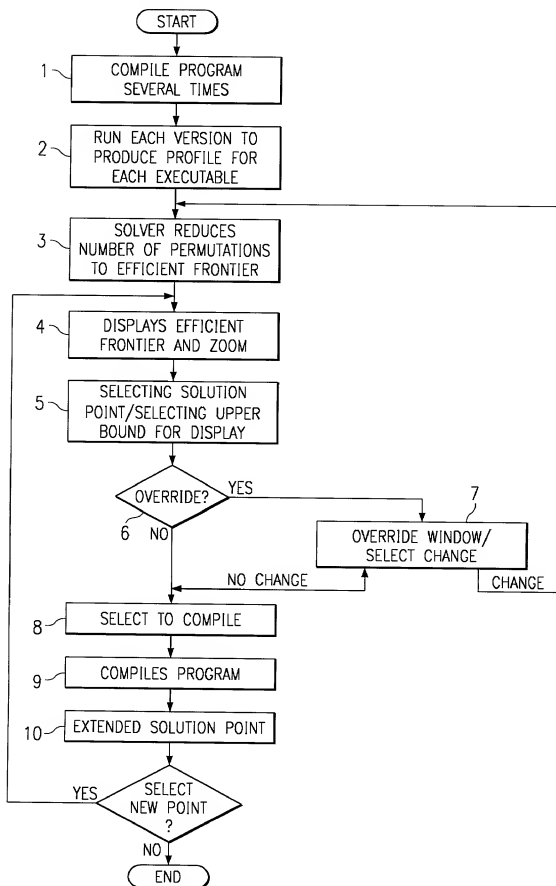


FIG. 3A

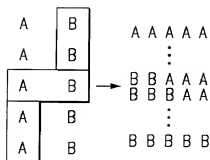


FIG. 3B

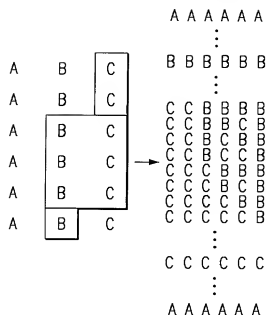


FIG. 4

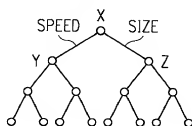
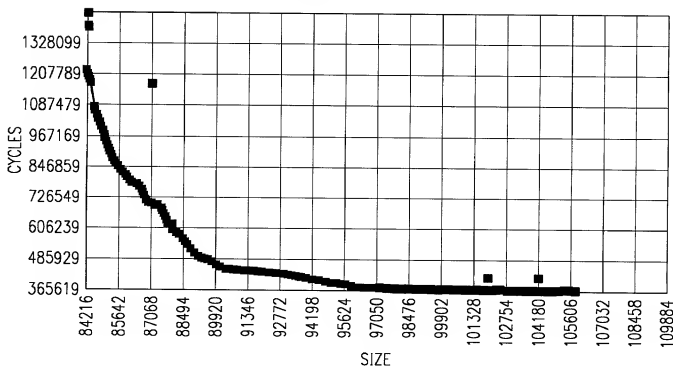


FIG. 5



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FIG. 6

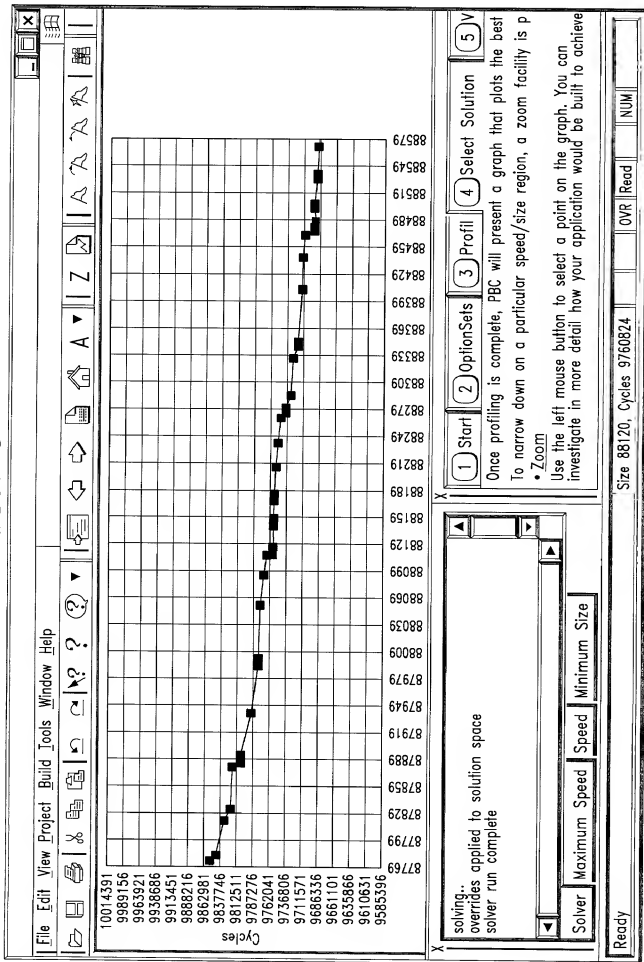


FIG. 7

| Function | Cycles | Size | Option Set | Options |
|-----------------------|--------|------|--------------|-------------|
| decoder_homing_fra... | 26 | 80 | Size | -o3-o10-ms2 |
| rx_dtx | 99 | 900 | Minimum Size | -o3-o10-ms3 |
| D_plfs_5 | 641 | 1716 | Minimum Size | -o3-o10-ms3 |
| Q_plsf_5 | 744 | 1448 | Minimum Size | -o3-o10-ms3 |
| decoder_reset | 296 | 368 | Minimum Size | -o3-o10-ms3 |
| Int_lpc2 | 296 | 224 | Minimum Size | -o3-o10-ms3 |
| Lsf_wt | 770 | 236 | Minimum Size | -o3-o10-ms3 |
| main | 2919 | 1680 | Minimum Size | -o3-o10-ms3 |
| reset_rx_dtx | 274 | 172 | Minimum Size | -o3-o10-ms3 |
| reset_tx_dtx | 315 | 184 | Minimum Size | -o3-o10-ms3 |
| Enc_lag6 | 242 | 344 | Minimum Size | -o3-o10-ms3 |
| vad_reset | 506 | 184 | Size | -o3-o10-ms2 |
| Int_Inc | 616 | 272 | Minimum Size | -o3-o10-ms3 |

FIG. 8

| gsm51.orf | | Overrides | |
|------------------|----------------|--------------------------------|--|
| Function | OptionSet/Rule | Rule | |
| | | <input type="radio"/> Smallest | <input type="radio"/> Fastest <input type="radio"/> None |
| Int_Pre_Process | None | | |
| sel_sign | None | | |
| search_1040 | None | | |
| q_p | None | | |
| cor_h_x | None | | |
| cor_h | None | | |
| build_code | None | | |
| code_1040_35bits | None | | |
| Coder_12k2 | None | | |
| Vq_subvec_s | None | | |
| Vq_subvec | None | | |
| Lsf_wt | None | | |
| Q_plsf_5 | None | | |

| OptionSet | Cycles | Size | Options |
|--|--------|------|-------------|
| <input type="radio"/> Maximum Speed | 67480 | 6364 | -03-o10 |
| <input type="radio"/> Aggressive Speed | 67864 | 6316 | -03-o10-ms0 |
| <input type="radio"/> Speed | 66380 | 6492 | -03-o10-ms1 |
| <input type="radio"/> Size | 217240 | 5048 | -03-o10-ms2 |
| <input type="radio"/> Minimum Size | 297348 | 5056 | -03-o10-ms3 |

FIG. 9

FIG. 9

| Estimated: | | Actual: | |
|--------------------|--------|--------------------|--------|
| Cycles: | 414834 | Cycles: | 414834 |
| Size: | 53024 | Size: | 53068 |
| Unprofiled Cycles: | 80458 | Unprofiled Cycles: | 80532 |
| Unprofiled Size: | 36388 | Unprofiled Size: | 36436 |
| Total Cycles: | 495292 | Total Cycles: | 495366 |
| Total Size: | 89412 | Total Size: | 89504 |

| Function | Estimated C... | Estimated Size | Option Set | Profiled Cycles | Profiled Size | Delta Cycle | Delta Size |
|--------------|----------------|----------------|---------------|-----------------|---------------|-------------|------------|
| search_10i40 | 66380 | 6492 | Speed | 66380 | 6516 | 0 | -24 |
| Syn_fill | 32928 | 744 | Maximum Spe.. | 32928 | 744 | 0 | 0 |
| Vq_subvec | 25520 | 320 | Minimum Size | 25520 | 320 | 0 | 0 |
| Lag_max | 22404 | 708 | Maximum Spe.. | 22404 | 708 | 0 | 0 |
| Vq_subvec_s | 19769 | 616 | Minimum Size | 19769 | 616 | 0 | 0 |
| Norm_Corr | 16466 | 1280 | Maximum Spe.. | 16466 | 1280 | 0 | 0 |
| Coder_12k2 | 16030 | 3520 | Minimum Size | 16030 | 3520 | 0 | 0 |